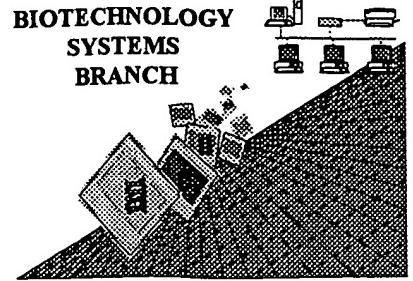


Railey

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/122,384
Art Unit / Team No.: 1636
Date Processed by STIC: 12/10/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

J. Roiley

#7

1636

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/122,384

DATE: 12/10/1998
TIME: 09:17:03

Input Set: I122384.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

New format

E--> 1 <110> → MANDATORY numeric identifier and response needed
E--> 2 <120> → MANDATORY numeric identifier and response if filed before assignment
W--> 3 <130> → mandatory numeric identifier and response if filed before assignment
4 <140> US/09/122,384 of serial
5 <141> 1998-07-24 number
E--> 6 <160> → MANDATORY numeric identifier and response (32 bytes) Does Not Comply
7 <170> PatentIn Ver. 2.0 Corrected Diskette Needed
8 <210> 1
9 <211> 2220
10 <212> DNA
11 <213> Artificial Sequence
12 <220>
13 <223> Description of Artificial Sequence: Synthetic
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16 gcttctcagt gcgttacatc cctggcttgt tgcacaaac cgtaaacct taaaagctt 120
17 aaaaggcccta tatattcttt tttttcttat aaaacttaaa accttagagg ctatatagt 180
18 tgctgattta tattaatttt attgttcaaa catgagagct tagtacgtga aacatgagag 240
19 cttagtacgt tagccatgag agcttagtac gttagccatg agggtttagt tcgttaaaca 300
20 tgagagctta gtacgttaaa catgagagct tagtacgtga aacatgagag cttagtacgt 360
21 actatcaaca ggttgaactg ctgatcaaca gatcctctac gcggccgcgg taccataact 420
22 tcgtatagca tacattatac gaagttatct ggaattcccc gggctcgaga acatatggcc 480
23 atggggatcc gcggccgcaa ttgttaacag atccgtcgac gagctcgcta tcagcctcga 540
24 ctgtgccttc tagttgccag ccattctgtt tttggccctc cccctgtcct tccttgaccc 600
25 tggaaagggtgc cactcccact gtccttcct aataaaatga ggaaattgca tcgcattgtc 660
26 tgagttaggtg tcattctatt ctgggggtg ggggtgggca ggacagcaag ggggaggatt 720
27 gggaaagacaa tagcaggcat gctgggatt ctagaagatc cggctgctaa caaagccccga 780
28 aaggaagctg agttggctgc tgccaccgct gagcaataac tagcataacc ctttggggcc 840
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30 gtgggcgaag aactccagca tgagatcccc ggcgtggagg atcatccagc cggcgtcccc 960
31 gaaaacgatt ccgaagcccc acctttcata gaaggccggc gtggaatcga aatctcgta 1020
32 tggcagggtt ggcgtcgctt ggtcggtcat ttgcaccccc agagtccgc tcagaagaac 1080
33 tcgtcaagaa ggcgatagaa ggcgatgcgc tgcgaatcg gagccggcat accgtaaacg 1140
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38 tgctttcggt ccagatcatc ctgatcgaca agaccggctt ccattccgagt acgtgctcgc 1440
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40 cggccgcatgt catcagccat gatggatact ttctcgccag gagcaaggtg agatgacagg 1560
41 agatcctgcc cccgcacttc gccaaatagc agccagtc ttcccgctt agtgacaacg 1620
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43 tcctgcgtatt cattcaggc accggacagg tcggtcttga caaaaagaac cggccgcccc 1740
44 tgcgtgaca gccggAACAC ggcggcatca gagcagccga ttgtctgttgc tggccagtc 1800

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/122,384DATE: 12/10/1998
TIME: 09:17:03

Input Set: I122384.RAW

45 tagccgaata gcctctccac ccaagcggcc ggagaacctg cgtcaatcc atcttggcca 1860
46 atcatgcgaa acgatcctca tcctgtctct tgatcagatc ttgatcccct ggcgcattcg 1920
47 atcctggcg gcaagaaaagc catccagttt actttgcagg gcttcccaac cttaccagag 1980
48 ggcgcggccag ctggcaattc cggttcgctt gctgtccata aaaccgcaca gtctagctat 2040
49 cgcgcattgtaa gcccaactgca agctacactgc tttctctttg cgcttgcgtt ttcccttgc 2100
50 cagatagccc agtagctgac attcatccgg ggtcagcacc gtttctgcgg actggcttgc 2160
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52 <210> 2
53 <211> 16
54 <212> DNA
55 <213> Artificial Sequence
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57 <223> Description of Artificial Sequence: Synthetic
58 <400> 2
59 ggatccccgg gaattc 16
60 <210> 3
61 <211> 36
62 <212> DNA
63 <213> Artificial Sequence
64 <220>
65 <223> Description of Artificial Sequence: Synthetic
66 <400> 3
67 ggatcgcata tgcccatggc tcgaggatcc gaattc 36
68 <210> 4
69 <211> 42
70 <212> DNA
71 <213> Artificial Sequence
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73 <223> Description of Artificial Sequence: Synthetic
74 <400> 4
75 catggctata acttcgtata gcatacatta tacgaagtta tg 42
76 <210> 5
77 <211> 42
78 <212> DNA
79 <213> Artificial Sequence
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83 gatccataaac ttctgtataat gtatgtata cgaagttata gc 42
84 <210> 6
85 <211> 46
86 <212> DNA
87 <213> Artificial Sequence
88 <220>
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90 <400> 6
91 ggccggacgt cataacttcg tatagcatac attatacgaa gttatg 46
92 <210> 7
93 <211> 46
94 <212> DNA

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/122,384DATE: 12/10/1998
TIME: 09:17:03

Input Set: I122384.RAW

95 <213> Artificial Sequence
96 <220>
97 <223> Description of Artificial Sequence: Synthetic
98 <400> 7
99 gatccataac ttcgtataat gtatgctata cgaagttatg acgtcc 46
100 <210> 8
101 <211> 46
102 <212> DNA
103 <213> Artificial Sequence
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105 <223> Description of Artificial Sequence: Synthetic
106 <400> 8
107 tcgagacgtc ataacttcgt atagcataca ttatacgaag ttatgc 46
108 <210> 9
109 <211> 46
110 <212> DNA
111 <213> Artificial Sequence
112 <220>
113 <223> Description of Artificial Sequence: Synthetic
114 <400> 9
115 ggccgcataa cttcgtataa tgtatgctat acgaagttat gacgtc 46
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117 <211> 1740
118 <212> DNA
119 <213> Artificial Sequence
120 <220>
121 <223> Description of Artificial Sequence: Synthetic
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124 ttggaaatatc ttgaagaaaa atatgaagag catttgtatg agcgcgatga aggtgataaaa 120
125 tggcgaaaca aaaagtttga attgggttg gagtttcca atcttcctta ttatattgtat 180
126 ggtatgtta aattaacaca gtctatggcc atcatacgtt atatagctga caagcacaac 240
127 atgttgggtg gttgtccaaa agagcgtgca gagattcaa tgcttgaagg agcggtttt 300
128 gatatttagat acgggtttc gagaattgca tatagtaaag actttgaaac tctcaaagt 360
129 gatttctta gcaagctacc tgaaatgctg aaaatgttcg aagatcgaaa atgtcataaa 420
130 acatatttaa atggtgatca tgtaacccat cctgacttca tggatgtatga cgctcttgat 480
131 gttgttttat acatggaccc aatgtgcctg gatgcgttcc caaaatttagt ttgttttaaa 540
132 aaacgtattt aagctatccc acaaattgtat aagtacttga aatccagcaa gtatatacg 600
133 tggccttgc aggctggca agccacgttt ggtggggcg accatccccc aaaatcgat 660
134 ctgggtccgc gtggatctcg tcgtgcacatct gttggatcg atatgcccat ggcaattta 720
135 ctgaccgtac accaaaattt gcctgcatta cccgtcgatg caacgagtga tgaggttgc 780
136 aagaacctga tggacatgtt cagggatcg caggcgaaaaatg 840
137 cttctgtccg tttgccccgtc gtggggcgca tggatgtatg tgaataaccg gaaatggtt 900
138 cccgcagaac ctgaagatgt tcgcgttatt cttctatatc ttcaggcgcc cggctctggca 960
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140 ccacgaccaa gtgacagcaa tgctgttca ctgggttatgc ggcggatccg aaaagaaaaac 1080
141 gttgtgcccgtc gtgaacgtgc aaaacaggct cttagcgttgc aacgcactga tttcgaccag 1140
142 gttcggttac tcatggaaaa tagcgatcg tgccaggata tacgtaatct ggcatttctg 1200
143 gggattgctt ataacacccct gttacgtata gccgaaattt ccaggatcg ggttaaagat 1260
144 atctcacgta ctgacgggtgg gagaatgtta atccatatttgc gcaacgaa aacgctggtt 1320

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/122,384DATE: 12/10/1998
TIME: 09:17:03

Input Set: I122384.RAW

145 agcacccgag gtgttagagaa ggcacttagc ctggggtaa ctaaactggt cgagcgatgg 1380
 146 atttccgtct ctgggttagc tgatgatccg aataactacc tgtttgccg ggtcagaaaa 1440
 147 aatggtgttgc cccgcaccatc tgccaccaggc cagctatcaa ctcgcgcctt ggaaggatt 1500
 148 tttgaagcaa ctcatcgatt gatttacggc gctaaggatg actctggtca gagataacctg 1560
 149 gcctggctcg gacacagtgc ccgtgtcgga gccgcgcgag atatggcccg cgctggagtt 1620
 150 tcaataccgg agatcatgca agctggtggc tggaccaatg taaatattgt catgaactat 1680
 151 atccgttaacc tggatagtga aacaggggca atggtgcgcc tgctggaaga tggcgattag 1740
 152 <210> 11
 153 <211> 579
 154 <212> PRT
 155 <213> Artificial Sequence
 156 <220>
 157 <223> Description of Artificial Sequence: Synthetic
 158 <400> 11
 Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
 159 1 5 10 15
 160 Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
 161 20 25 30
 162 Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
 163 35 40 45
 164 Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
 165 50 55 60
 166 Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
 167 65 70 75 80
 168 Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
 169 85 90 95
 170 Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
 171 100 105 110
 172 Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
 173 115 120 125
 174 Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
 175 130 135 140
 176 Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
 177 145 150 155 160
 178 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 179 165 170 175
 180 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 181 180 185 190
 182 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 183 195 200 205
 184 Thr Phe Gly Gly Asp His Pro Pro Lys Ser Asp Leu Val Pro Arg
 185 210 215 220
 186 Gly Ser Arg Arg Ala Ser Val Gly Ser His Met Pro Met Ala Asn Leu
 187 225 230 235 240
 188 Leu Thr Val His Gln Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser
 189 245 250 255
 190 Asp Glu Val Arg Lys Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala
 191 260 265 270
 192 Phe Ser Glu His Thr Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp
 193 275 280 285

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/122,384DATE: 12/10/1998
TIME: 09:17:03

Input Set: I122384.RAW

195 Ala Ala Trp Cys Lys Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro
196 290 295 300
197 Glu Asp Val Arg Asp Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala
198 305 310 315 320
199 Val Lys Thr Ile Gln Gln His Leu Gly Gln Leu Asn Met Leu His Arg
200 325 330 335
201 Arg Ser Gly Leu Pro Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val
202 340 345 350
203 Met Arg Arg Ile Arg Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys
204 355 360 365
205 Gln Ala Leu Ala Phe Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu
206 370 375 380
207 Met Glu Asn Ser Asp Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu
208 385 390 395 400
209 Gly Ile Ala Tyr Asn Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile
210 405 410 415
211 Arg Val Lys Asp Ile Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His
212 420 425 430
213 Ile Gly Arg Thr Lys Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala
214 435 440 445
215 Leu Ser Leu Gly Val Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser
216 450 455 460
217 Gly Val Ala Asp Asp Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys
218 465 470 475 480
219 Asn Gly Val Ala Ala Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala
220 485 490 495
221 Leu Glu Gly Ile Phe Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys
222 500 505 510
223 Asp Asp Ser Gly Gln Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg
224 515 520 525
225 Val Gly Ala Ala Arg Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu
226 530 535 540
227 Ile Met Gln Ala Gly Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr
228 545 550 555 560
229 Ile Arg Asn Leu Asp Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu
230 565 570 575
231 Asp Gly Asp

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**VERIFICATION SUMMARY
PATENT APPLICATION US/09/122,384**

DATE: 12/10/1998

TIME: 09:17:03

Input Set: I122384.RAW

Line ? Error/Warning

Original Text

-
- 1 E Response to "Applicant" Name is Missing
 - 2 E Response to "Title of Invention" Missing
 - 3 W Response to "File Reference" is Missing
 - 6 E # of Seq. 0 Not Equal Actual 32